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- 1 [Extending the lifetime of wireless sensor networks through mobile re](#)
Wei Wang, Vikram Srinivasan, Kee-Chaing Chua
October 2008 **IEEE/ ACM Transactions on Networking (TON)** , Volume 16

Publisher: IEEE Press [Request Permissions](#)

Full text available: [Pdf](#) (1.14 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 69, Downloads (12 Months): 149, Downl

We investigate the benefits of a heterogeneous architecture for wireless resource rich mobile relay nodes and a large number of simple static no the static sensors. ...

Keywords: mobile relay, network lifetime, sensor networks

- 2 [Fidelity and yield in a volcano monitoring sensor network](#)
Geoff Werner-Allen, Konrad Lorincz, Jeff Johnson, Jonathan Lees, Matt Wei
November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating**

Publisher: USENIX Association

Full text available: [Pdf](#) (1.53 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 102, Downlo

We present a science-centric evaluation of a 19-day sensor network dep Ecuador. Each of the 16 sensors continuously sampled seismic and acou detection algorithm to trigger ...

- 3 [Communications of the ACM: Volume 51 Issue 1](#)
January 2008 Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) , [Pdf](#) (5.97 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 355, Downloads (12 Months): 3182, Dov

- 4 [What's going on?: learning communication rules in edge networks](#)
Srikanth Kandula, Ranveer Chandra, Dina Katabi
August 2008 **SIGCOMM '08: Proceedings of the ACM SIGCOMM 2008 conf**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (4.84 MB)

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Existing traffic analysis tools focus on traffic volume. They identify the f
volumes of data, yet fail to identify the structure implicit in network traf
along with ...

Keywords: communication rules, correlation, expose, rule mining

Also published in:

October 2008 **SIGCOMM Computer Communication Review** Volume 38 Issue

5 [Improving Network Operations With Intelligent Agents](#)

Nathan J. Muller

July 1997

International Journal of Network Management, Volume 7

Publisher: John Wiley & Sons, Inc.

Full text available:  [Pdf](#) (314.75 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 12, Downloa

Automating network and system management tasks has never been ea:
article describes the uses and advantages of intelligent agents, to identi
dispatching technicians ...


6 [IP is dead, long live IP for wireless sensor networks](#)



Jonathan W. Hui, David E. Culler

November 2008 **SenSys '08: Proceedings of the 6th ACM conference on En**

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Full text available:  [Pdf](#) (1.56 MB)

Additional Information: [full citation](#), [abs](#)

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A decade ago as wireless sensor network research took off many resear
inadequate and in contradiction to the needs of wireless sensor network
links have emerged, ...

Keywords: 6lowpan, internet, internetworking, ip, ipv6, media manage
wireless

7 [Fine grained kernel logging with KLogger: experience and insights](#)



Yoav Etsion, Dan Tsafir, Scott Kirkpatrick, Dror G. Feitelson

June 2007 **EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys I**
2007

Publisher: ACM

Full text available:  [Pdf](#) (652.32 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 94, Downlo


Understanding the detailed behavior of an operating system is crucial fc
an understanding is very hard to achieve, due to the increasing comple
implemented and ...

Keywords: KLogger, Linux, kernel logging, locking, operating systems,

Also published in:

June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

8 [Secure Time Synchronization in Sensor Networks](#)

 [Saurabh Ganeriwal](#), [Christina Pöpper](#), [Srdjan Čapkun](#), [Mani B. Srivastava](#)
July 2008 **Transactions on Information and System Security (TIS)**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (490.90 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 383, Downl



Time synchronization is critical in sensor networks at many layers of the radio, accurate and secure localization, beamforming, and other collabo make time-synchronization ...

Keywords: Sensor networks, delay, message authentication code, time

9 [Communications of the ACM: Volume 52 Issue 3](#)


 March 2009 **Communications of the ACM**

Publisher: ACM



Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.04 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 371, Downloads (12 Months): 2935, Dov

10 [Communications of the ACM: Volume 52 Issue 7](#)


 July 2009 **Communications of the ACM**

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.61 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 1192, Downloads (12 Months): 7168, Dc

11 [OviVis: visualization of peer-to-peer networks in simulation and testb](#)

 [Konrad Jünemann](#), [Jochen Dinger](#)

April 2008 **CNS '08: Proceedings of the 11th communications and netwo**

Publisher: ACM


Full text available:  [Pdf](#) (257.80 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 66, Downlo

Peer-to-Peer (P2P) networks are realized as overlay networks and hence exist. In addition, P2P networks dynamically adapt to changes in the en Thus, network topologies ...

Keywords: network visualization, peer-to-peer


12 [AjaxScope: a platform for remotely monitoring the client-side behavio](#)

 [Emre Kiciman](#), [Benjamin Livshits](#)

October 2007 **SOSP '07: Proceedings of twenty-first ACM SIGOPS symposi**

Publisher: ACM  [Request Permissions](#)

Full text available: Additional Information: [full citation](#), [abs](#)

 Pdf (1.45 MB)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 385, Downl

The rise of the software-as-a-service paradigm has led to the developm applications often called Web 2.0. While web applications have become developers today have ...

Keywords: software instrumentation, software monitoring, web applica

Also published in:


October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

13 [Lance: optimizing high-resolution signal collection in wireless sensor](#)

 Geoffrey Werner-Allen, Stephen Dawson-Haggerty, Matt Welsh

November 2008 **SenSys '08: Proceedings of the 6th ACM conference on En**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.39 MB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 283, Downl

An emerging class of sensor networks focuses on reliable collection of h In these applications, the system is capable of acquiring more data thar severe limits ...

Keywords: data collection, resource management, wireless sensor net

14 [Quality-aware dstributed data delivery for continuous query services](#)

 Bugra Gedik, Ling Liu

June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD interna**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (679.89 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 80, Downlo

We consider the problem of distributed continuous data delivery service nodes. Each node in the system can be a source for any number of data node that is receiving streams ...

Keywords: quality of service, stream delivery

15 [Proceedings of the 44th annual Design Automation Conference](#)

 Steven P. Levitan

June 2007 **DAC '07: Proceedings of the 44th annual Design Automation**


Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

Welcome to San Diego and the 44th Design Automation Conference! Sa proximity to many high-tech companies, its beautiful location in souther

sights. For those ...

- 16** [Understanding the propagation of hard errors to software and implic](#)
 [Man-Lap Li, Pradeep Ramachandran, Swarup Kumar Sahoo, Sarita V. Adve](#)
 March 2008 **ASPLOS XIII: Proceedings of the 13th international conferer**
 languages and operating systems

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (242.26 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 202, Downl

With continued CMOS scaling, future shipped hardware will be increasin
 broadly deployable, the hardware reliability solution must incur low over
 redundancy. We explore a cooperative ...

Keywords: architecture, error detection, fault injection, permanent fau


- 17** [Self-tuning database technology and information services: from wish](#)
[Gerhard Weikum, Axel Moenkeberg, Christof Hasse, Peter Zabback](#)
 August 2002 **VLDB '02: Proceedings of the 28th international conference (**
Publisher: VLDB Endowment

Full text available:  [Pdf](#) (553.39 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 108, Downl

Automatic tuning has been an elusive goal for database technology for :
 modern E-services. This paper reviews and assesses the advances that
 during the last ten years. ...

- 18** [XML stream processing using tree-edit distance embeddings](#)
 [Minos Garofalakis, Amit Kumar](#)
 March 2005 **Transactions on Database Systems (TODS)** , Volume 30 Iss

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (726.56 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 125, Downl

We propose the first known solution to the problem of correlating, in sr
 through approximate (structure and content) matching, as defined by a
 element of our solution ...

Keywords: XML, approximate query processing, data streams, data sy
 distance

- 19** [Process prioritization using output production: Scheduling for multim](#)
 [Yoav Etsion, Dan Tsafir, Dror G. Feitelson](#)
 November 2006 **Transactions on Multimedia Computing, Communicati**
 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (618.60 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 97, Downlo



Desktop operating systems such as Windows and Linux base scheduling consume fewer CPU cycles are prioritized, assuming that interactive pro their time waiting ...

Keywords: Multimedia, resource management

20 [Communications of the ACM: Volume 51 Issue 12](#)

 December 2008 [Communications of the ACM](#)

Publisher: ACM

Full text available:  [Digital Edition](#) ,  Pdf (6.91 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 453, Downloads (12 Months): 4375, Dov

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